

## **MADERA COUNTY**

### **WELDER/MECHANIC ASSISTANT**

#### **DEFINITION**

Under general supervision, to perform a variety of skilled welding in the repair and fabrication of parts for heavy, road, and construction equipment; to assist Heavy Equipment Mechanics with maintenance and repair work; and to do related work as required.

#### **SUPERVISION EXERCISED**

Exercises no supervision.

#### **EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES**

Repairs, hard faces, tempers, and rebuilds tools and road equipment parts including ripper teeth, dozer corner bits, grader blades, mounts, braces, and hitches; builds up worn parts by electric and gas welding of high carbon steels, cast iron additions, and brass additions; lays out, fabricates, and installs special metal equipment such as gear boxes, fuel tanks, water tanks, all types of trailer hitches, extra heavy duty bumpers, and truck beds; assists with the mechanical repairs and maintenance of automotive and road construction equipment; cleans parts, floors, and areas of the Equipment Repair Shop.

#### **OTHER JOB RELATED DUTIES**

Performs related duties and responsibilities as assigned.

#### **JOB RELATED AND ESSENTIAL QUALIFICATIONS**

##### **Knowledge of:**

Methods, tools, materials, and equipment used in gas and electric welding work.  
Properties and characteristics of metals.  
Basic knowledge of the operation and care of internal combustion and diesel engines and components.  
Safe work practices.

##### **Skill to:**

Operate a variety of tools and equipment used in gas and electric welding work and equipment maintenance and repair safely and skillfully.  
Operate a motor vehicle safely.

##### **Ability to:**

Perform a wide variety of gas and electric welding work.  
Judge temperatures and the quality of welded joints.  
Lay out materials from simple sketches.

**Madera County**  
**Welder/Mechanic Assistant (Continued)**

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**Ability to:**

Design and fabricate parts and equipment from metal.  
Estimate time and materials needed for welding jobs.  
Assist with the mechanical repair and maintenance of heavy, road, and construction equipment.  
Understand and carry out oral and written directions.  
Communicate clearly and concisely, both orally and in writing.  
Establish, maintain, and foster positive and harmonious working relationships with those contacted in the course of work.

**Experience and Training Guidelines:**

*Any combination equivalent to experience and training that would provide the required knowledge, skills, and abilities would be qualifying. A typical way to obtain the knowledge, skills, and abilities would be:*

**Experience:**

One year of responsible work experience in performing skilled gas and electric welding work, preferably including experience working with automotive and road construction equipment.

**Training:**

Equivalent to the completion of the twelfth grade supplemented by specialized training in gas and electric welding work.

**License or Certificate:**

Possession of, or ability to obtain, an appropriate, valid driver's license.

**Special Requirements:**

*Essential duties require the following physical skills and work environment:*

Ability to sit, stand, walk, kneel, crouch, stoop, squat, twist, climb, and lift 50 lbs.; exposure to cold, heat, noise, outdoors, vibration, chemicals, explosive materials, mechanical hazards, and electrical hazards.

**Effective Date:** May, 1995